

Amendments to the Claims:

Claims 4, 13, 18, 29 and 35 are amended as set forth hereinafter.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A stereoscopic display system comprising:

a single display for displaying right and left partial images sequentially in time;

5 a first optical arrangement for defining a common viewing beam path along which said right and left partial images are transmitted;

a second optical arrangement for splitting said common viewing beam path into separate first and second component beam paths for viewing only said left and only said right partial images, respectively; and,

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a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display.

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2. (Previously Presented) A stereoscopic display system comprising:

a single display for displaying right and left partial images sequentially in time;

5 a first optical arrangement for defining a common viewing beam path along which said right and left partial images are transmitted;

a second optical arrangement for splitting said common viewing beam path into separate first and second component beam paths for viewing only said left and only said right partial images, respectively;

10 a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display; and,

15 said switchover device including a mirror switchable into and out of said beam path.

3. (Original) The stereoscopic display system of claim 1, further comprising a light source for transmitting light along an illuminating beam path toward said display; and, said switchover device including a polarization switch mounted in said illuminating beam path or in said common viewing beam path.

5 4. (Currently Amended) ~~The stereoscopic display system of claim 3, further comprising~~ A stereoscopic display system comprising:

a single display for displaying right and left partial images sequentially in time;

a first optical arrangement for defining a common viewing beam path along which said right and left partial images are transmitted;

10 a second optical arrangement for splitting said common viewing beam path into separate first and second component beam paths for viewing only said left and only said right partial images, respectively;

15 a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display; and,

20 a partially transmitting mirror; polarization filters mounted in corresponding ones of said first and second component beam paths; and, said polarization filters having respective pass-through directions crossed with respect to each other.

5. (Original) The stereoscopic display system of claim 3, said second optical arrangement comprising a polarization beam splitter for splitting said common viewing beam path into said first and second component beam paths.

6. (Original) The stereoscopic display system of claim 5, said switchover device including a polarization switch mounted in said common viewing beam path.

7. (Original) The stereoscopic display system of claim 1, said second optical arrangement including a transfer optic in one of

said separate first and second component beam paths.

8. (Original) A viewing system worn by a person on the head, the viewing system comprising:

a head gear which can be worn by a person on the head;

5 a stereoscopic display system integrated into said head gear and including:

a single display for sequentially displaying right and left partial images;

10 a first optical arrangement for defining a common viewing beam path along which said right and left partial images are transmitted;

a second optical arrangement for splitting said common viewing beam path into separate first and second component beam paths for viewing only said left and only said right partial images, respectively; and,

15 a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display.

9. (Original) The viewing system of claim 8, wherein said head gear is a spectacle frame.

10. (Original) The viewing system of claim 8, said second optical arrangement including a beam splitter for splitting said common viewing beam path into said first and second component

beam paths; and, said first optical arrangement including a
5 deflecting mirror disposed between said display and said beam
splitter.

11. (Original) A stereoscopic display system comprising:

a single display for sequentially displaying right and left
partial images;

an optical arrangement for defining an illuminating beam
5 path and for illuminating said display sequentially in time with
light having first and second directions of polarization
different from each other; and,

said optical arrangement including a polarization beam
splitter mounted in said illuminating beam path.

12. (Previously Presented) A stereoscopic display system
comprising:

a single display for sequentially displaying right and left
partial images;

5 an optical arrangement for defining an illuminating beam
path and for illuminating said display sequentially in time with
light having first and second directions of polarization
different from each other;

said optical arrangement including a polarization beam
10 splitter mounted in said illuminating beam path; and,

said optical arrangement further including two light sources
for emitting respective beams of light and said polarization beam
splitter being mounted to receive said beams of light and to
coaxially superpose said beams of light one upon the other.

13. (Original) ~~The stereoscopic display system of claim 12,~~
~~further comprising~~ A stereoscopic display system comprising:

a single display for sequentially displaying right and left
partial images;

an optical arrangement for defining an illuminating beam
path and for illuminating said display sequentially in time with
light having first and second directions of polarization
different from each other;

said optical arrangement including a polarization beam
splitter mounted in said illuminating beam path;

said optical arrangement further including two light sources
for emitting respective beams of light and said polarization beam
splitter being mounted to receive said beams of light and to
coaxially superpose said beams of light one upon the other; and,

a color filter wheel common to both of said light sources
and mounted downstream thereof.

14. (Original) The stereoscopic display system of claim 13,
further comprising a control unit for driving said color filter
wheel in synchronism with a display of stereoscopic color
sequences.

15. (Previously Presented) A stereoscopic display system
comprising:

a single display for displaying right and left partial
images sequentially in time;

5 first and second optical arrangements for defining

respective viewing beam paths for viewing only said right and left partial images; and,

a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display.

16. (Previously Presented) A stereoscopic display system comprising:

a single display for displaying right and left partial images sequentially in time;

first and second optical arrangements for defining respective viewing beam paths for viewing only said right and left partial images;

a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display; and,

said switchover device including a mirror switchable into and out of said beam path.

17. (Previously Presented) The stereoscopic display system of claim 15, further comprising a light source for transmitting light along an illuminating beam path toward said display; and, said switchover device including a polarization switch mounted in said illuminating beam path or in said common viewing beam path.

18. (Currently Amended) ~~The stereoscopic display system of claim 17, further comprising~~ A stereoscopic display system comprising:

a single display for displaying right and left partial images sequentially in time;

first and second optical arrangements for defining respective viewing beam paths for viewing only said right and left partial images;

a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display; and,

a partially transmitting mirror; polarization filters mounted in corresponding ones of said first and second component beam paths; and, said polarization filters having respective pass-through directions crossed with respect to each other.

19. (Previously Presented) The stereoscopic display system of claim 17, said second optical arrangement comprising a polarization beam splitter for splitting said common viewing beam path into said first and second component beam paths.

20. (Previously Presented) The stereoscopic display system of claim 19, said switchover device including a polarization switch mounted in said common viewing beam path.

21. (Previously Presented) The stereoscopic display system of claim 15, said second optical arrangement including a transfer optic in one of said separate first and second component beam paths.

22. (Previously Presented) A stereoscopic display system comprising:

a single display for displaying right and left partial images sequentially in time;

5 a first optical arrangement for defining a common viewing beam path along which said right and left partial images are transmitted;

a second optical arrangement for receiving said common viewing beam path and defining separate first and second
10 component beam paths for viewing only said left and only said right partial images, respectively; and,

a switchover device including a mirror alternately switchable into and out of said common viewing beam path so as to permit information shown on said display to pass into said first
15 component beam path separately when said mirror is in said common viewing beam path and to pass into said second component beam path separately when said mirror is switched out of said common beam path in synchronism with the presentation of said left and right partial images on said display.

23. (Previously Presented) The stereoscopic display system of claim 22, further comprising a light source for transmitting light along an illuminating beam path toward said display; and,

5 said switchover device including a polarization switch mounted in
said illuminating beam path or in said common viewing beam path.

24. (Previously Presented) The stereoscopic display system of
claim 23, further comprising a partially transmitting mirror;
polarization filters mounted in corresponding ones of said first
and second component beam paths; and, said polarization filters
5 having respective pass-through directions crossed with respect to
each other.

25. (Previously Presented) The stereoscopic display system of
claim 22, said second optical arrangement including a transfer
optic in one of said separate first and second component beam
paths.

26. (Previously Presented) A stereoscopic display system
comprising:

a single display for displaying right and left partial
images sequentially in time;

5 a first optical arrangement for defining a common viewing
beam path along which said right and left partial images are
transmitted;

a second optical arrangement for splitting said common
viewing beam path into separate first and second component beam
10 paths for viewing only said left and only said right partial
images, respectively;

a switchover device for alternately coupling information
shown on said display from said common viewing beam path

separately into said first and second component beam paths in
15 synchronism with the presentation of said left and right partial
images on said display; and,

said switchover device including a polarization switch
mounted in said illuminating beam path or in said common viewing
beam path; and, a polarization beam splitter for splitting said
20 common viewing beam path into said first and second component
beam paths.

27. (Previously Presented) The stereoscopic display system of
claim 26, further comprising a light source for transmitting
light along an illuminating beam path toward said display.

28. (Previously Presented) The stereoscopic display system of
claim 26, said polarization switch being mounted in said common
viewing beam path.

29. (Currently Amended) ~~The stereoscopic display system of~~
~~claim 26, further comprising~~ A stereoscopic display system
comprising:

a single display for displaying right and left partial
5 images sequentially in time;

a first optical arrangement for defining a common viewing
beam path along which said right and left partial images are
transmitted;

a second optical arrangement for splitting said common
10 viewing beam path into separate first and second component beam
paths for viewing only said left and only said right partial

images, respectively;

a switchover device for alternately coupling information
shown on said display from said common viewing beam path

15 separately into said first and second component beam paths in
synchronism with the presentation of said left and right partial
images on said display;

said switchover device including a polarization switch
mounted in said illuminating beam path or in said common viewing
20 beam path; and, a polarization beam splitter for splitting said
common viewing beam path into said first and second component
beam paths; and,

a partially transmitting mirror; polarization filters
mounted in corresponding ones of said first and second component
25 beam paths; and, said polarization filters having respective
pass-through directions crossed with respect to each other.

30. (Previously Presented) The stereoscopic display system of
claim 26, said second optical arrangement including a transfer
optic in one of said separate first and second component beam
paths.

31. (Previously Presented) A viewing system worn by a person on
the head, the viewing system comprising:

a head gear which can be worn by a person on the head;

a stereoscopic display system integrated into said head gear
5 and including:

a single display for sequentially displaying right and left
partial images;

a first optical arrangement for defining a common viewing beam path along which said right and left partial images are transmitted;

a second optical arrangement for splitting said common viewing beam path into separate first and second component beam paths for viewing only said left and only said right partial images, respectively;

a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display; and,

said switchover device including a polarization switch mounted in said illuminating beam path or in said common viewing beam path; and, a polarization beam splitter for splitting said common viewing beam path into said first and second component beam paths.

32. (Previously Presented) The viewing system of claim 31, wherein said head gear is a spectacle frame.

33. (Previously Presented) The viewing system of claim 31, further comprising a light source for transmitting light along an illuminating beam path toward said display; and, said switchover device including a polarization switch mounted in said illuminating beam path or in said common viewing beam path.

34. (Previously Presented) The viewing system of claim 31, said

polarization switch being mounted in said common viewing beam path.

35. (Currently Amended) ~~The viewing system of claim 31, further comprising~~ A viewing system worn by a person on the head, the viewing system comprising:

a head gear which can be worn by a person on the head;

5 a stereoscopic display system integrated into said head gear and including:

a single display for sequentially displaying right and left partial images;

10 a first optical arrangement for defining a common viewing beam path along which said right and left partial images are transmitted;

15 a second optical arrangement for splitting said common viewing beam path into separate first and second component beam paths for viewing only said left and only said right partial images, respectively;

20 a switchover device for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of said left and right partial images on said display;

25 said switchover device including a polarization switch mounted in said illuminating beam path or in said common viewing beam path; and, a polarization beam splitter for splitting said common viewing beam path into said first and second component beam paths; and,

a partially transmitting mirror; polarization filters mounted in corresponding ones of said first and second component beam paths; and, said polarization filters having respective pass-through directions crossed with respect to each other.

36. (Previously Presented) The viewing system of claim 31, said second optical arrangement including a transfer optic in one of said separate first and second component beam paths.

37. (New) The stereoscopic display system of claim 4, further comprising a light source for transmitting light along an illuminating beam path toward said display; and, said switchover device including a polarization switch mounted in said illuminating beam path or in said common viewing beam path.

38. (New) The stereoscopic display system of claim 18, further comprising a light source for transmitting light along an illuminating beam path toward said display; and, said switchover device including a polarization switch mounted in said illuminating beam path or in said common viewing beam path.